

Table 10

## Variance Table

Hugo	GID	OMIM ID	VGX Symbol	Description
	Variance Start	Variance		
5	U73338	156570	GEN-69	Methionine Synthase
	194	(-201)C>G	5'	
10	284	(-111)C>T	5'	
	1136	742G>A	V248M	
	1252	858C>T	Silent	
	1334	940G>A	D314N	
	1699	1305T>C	Silent	
15	3150	2756A>G	D919G	
	3207	2813G>T	S938I	
	3209	2815G>C	G939R	
	5444	5050C>A	3'	
	5551	5157G>A	3'	
20	5573	5179C>T	3'	
	5659	5265T>C	3'	
	5678	5284T>C	3'	
	5874	5480C>T	3'	
	5934	5540A>G	3'	
25	D78586	114010	GEN-BR	CAD PROTEIN
	3434	3408C>T	Silent	
	4313	4287T>C	Silent	
	4799	4773A>G	Silent	
	5255	5229C>T	Silent	
30	5455	5429G>A	R1810Q	
	5507	5481T>C	Silent	
	5810	5784C>T	Silent	
	6128	6102C>T	Silent	
	6626	6600C>T	Silent	

5	6686	6660C>T	Silent	Dihydropyrimidine Dehydrogenase
	U09178	U09178 274270	GEN-HA	
	166	85T>C	C29R	
	577	496A>G	M166V	
	638	557A>G	Y186C	
	1708	1627A>G	I543V	
	3432	3351T>C	3'	
	3682	3601C>T	3'	
	3730	3649G>A	3'	
	3925	3844A>G	3'	
10	3937	3856T>C	3'	Folate Transporter (SLC19A1)
	U19720	U19720 600424	GEN-I1	
	175	80G>A	R27H	
	341	246C>G	Silent	
	791	696C>T	Silent	
	1067	972G>A	Silent	
	1337	1242C>A	Silent	
	1997	1902T>C	3'	
	2100	2005^2006insG	3'	
	2582	2487T>G	3'	
20	2617	2522C>T	3'	Homo sapiens reduced folate carrier (RFC1) gene, exons 1a, 1c and 1b
	2652	2557T>C	3'	
	U92868	U92868 600424	GEN-LUK	
	431	431A>G	Intron	
	441	441A>G	Intron	
	498	498C>T	Intron	
	579	579G>C	Intron	
	599	599G>C	Intron	
	X02308	X02308 188350	GEN-KL	
	1066	961T>C	3'	
30	1136	1031A>G	3'	Thymidylate synthase
	1497	1392T>A	3'	
	D00517	D00517 188350	GEN-LUC	
	276	276C>T	Intron	
	321	321T>C	Intron	
	452	452G>A	Intron	
	35			

[illegible]

5	13171	13171T>C	Intron	
	13298	13298G>A	Intron	
	13645	13645T>C	Intron	
	13751	13751C>A	Intron	
	13782	13782T>C	Intron	
	13806	13806T>C	Intron	
	13813	13813T>C	Intron	
	14479	14479A>G	Intron	
	14546	14546^insT	Intron	
10	14585	14585C>T	Intron	
	14729	14729G>A	Intron	
	14787	14787C>T	Intron	
	14795	14795G>A	Intron	
	15041	15041T>C	Intron	
15	15343	15343G>A	Intron	
	15449	15449G>A	Intron	
	15502	15502G>A	Intron	
	15545	15545C>T	Intron	
	15589	15589A>G	Intron	
20	15769	15769C>T	3'	
	15839	15839A>G	3'	
	16148	16148G>A	3'	
	16198	16198T>G	3'	
	16202	16202G>T	Intron	
25	X59618	X59618	GEN-M3	Ribonucleotide reductase M2 polypeptide
	128	(-67)G>A	5'	
	189	(-6)T>G	5'	
	524	330C>G	Silent	
	1399	1205T>A	3'	
30	1464	1270G>A	3'	
	1636	1442C>T	3'	
	1738	1544C>T	3'	
	2259	2065T>C	3'	
35	S72487	S72487	GEN-3LD	Thymidine phosphorylase, partial
	183	19G>A	D7N	
	483	319C>T	3'	

★	601	437G>C	3'	Thymidine phosphorylase, promoter and genomic
	1299	1135G>A	3'	
	M58602	131222	GEN-LUB	
	124	124C>T	3'	
	439	439G>A	3'	
5	1044	1044^insCT	3'	
	1331	1331G>A	3'	
	1977	1977G>A	Intron	
	2149	2149G>A	Intron	
	2467	2467A>G	Intron	
11	2634	2634C>G	Intron	
	2975	2975G>A	Intron	
	3116	3116G>T	Intron	
	3255	3255A>C	Intron	
	3344	3344T>C	Intron	
15	4051	4051C>A	Intron	
	4782	4782G>A	Intron	
	5022	5022T>C	Intron	
	5266	5266G>A	Intron	
	5285	5285C>G	Intron	
20	5438	5438T>A	Intron	
	5482	5482C>T	Intron	
	5629	5629G>A	Intron	
	5648	5648C>T	Intron	
	5731	5731G>A	Intron	
25	M98045	136510	GEN-4C3	Homo sapiens folypolyglutamate synthetase mRNA, complete cds
	802	732C>T	Silent	
	1747	1677G>T	3'	
	1900	1830T>C	3'	
	U24253	136510	GEN-LUE	
30	1424	1424C>A	Intron	Human folypolyglutamate synthetase (FPGS) gene, exons 5-11, and partial cds
	1649	1649G>A	Intron	
	2554	2554A>G	Intron	
	U24252	136510	GEN-LUF	
	263	263A>G	Intron	
35	266	266G>T	Intron	Folypolyglutamate synthetase, promoter and exons 1-4

5	527	527C>G	Intron	
	1037	1037A>G	5'	
	1139	1139G>A	Intron	
	1217	1217C>T	Intron	
	1647	1647C>T	Intron	
	1955	1955G>A	Intron	
	2017	2017G>A	Intron	
	2037	2037G>A	Intron	
	2189	2189A>G	Intron	
	2282	2282C>T	Intron	
10	2309	2309A>G	Intron	
	U09806	U09806	236250	GEN-4FZ
	120	120T>C	Silent	Human methylentetrahydrofolate reductase mRNA, partial cds
	464	464T>G	M155R	
15	519	519C>T	Silent	
	668	668C>T	A223V	
	1059	1059T>C	Silent	
	1289	1289C>A	3'	
	1308	1308T>C	3'	
20	1784	1784G>A	3'	
	AF061655	AF061655	123920	GEN-LUJ
	575	575T>C	Intron	Cytidine deaminase, promoter
	648	648T>C	Intron	
	771	771G>C	Intron	
25	883	883G>A	Intron	
	941	941^insC	5'	
	1051	1051A>C	K27Q	

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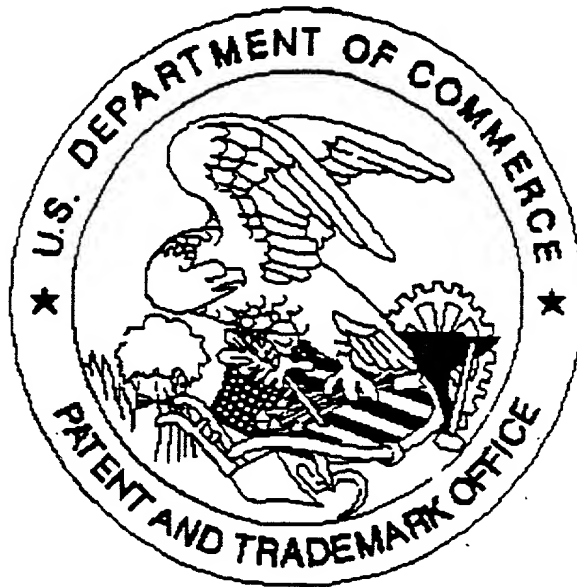
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